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SCIENTIFIC

Number 67

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NOTE: All Russian periodicals listed below are available in Foreign Documents Branch, CIA, except that indicated by an asterisk (\*) which is available in the Library of Congress. The Swedish, Norwegian, and Danish periodicals are available in the National Bureau of Standards.

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"Doklady Akademii Nauk SSSR, Novaya Seriya" (Reports of the Academy of Sciences of the USSR, New Series) Cards 24-29, 33-39, 55-71, 108	Vol LX No 6	May 1948
"Gornyy Zhurnal" (Mining Journal)* Cards 95-105	No 6	Jun 1948
"Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya" (News of the Academy of Sciences of the USSR, Biology Series) Cards 1, 87-92	No 1	Jan/Feb 1948
"Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya" (News of the Academy of Sciences of the USSR, Geology Series) Cards 2-4, 40-54	No 2	Mar/Apr 1948
"Nauka i Zhizn'" (Science and Life) Cards 5-7, 31, 94	No 5	May 1948
"Problemy Tuberkuleza" (Problems of Tuberculosis) Cards 79-86	No 2	Mar/Apr 1948
"Vestnik Oftalmologii" (Herald of Ophthalmology) Card 93	Vol XXVII No 2	Mar/Apr 1948
"Veterinariya" (Veterinary Medicine) Cards 72-78	No 2	Feb 1948
"Zhurnal Fizicheskoy Khimii" (Journal of Physical Chemistry) Cards 8-23	Vol XXII No 4	Apr 1948
<u>Swedish Periodicals</u>		
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"Ericsson Review" Card 30	No 1	1948

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Norwegian Periodical

"Elektro-Teknisk Tidsskrift" (Electrical Engineering Journal)  
Card 106

No 11

Apr 1948

Danish Periodical

"Tidsskrift for Industri" (Industrial Journal)  
Card 107

No 7

1 Apr 1948

NOTE

In indexing these abstracts the following guides are used: MEDICINE - "Quarterly Cumulative Index Medicus," American Medical Association; CHEMISTRY - "Chemical Abstracts Subject Index," American Chemical Society; GENERAL - "Subject Headings for Technical Libraries," US Department of Commerce, Office of Technical Services.

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USSR/Academy of Sciences

Jan/Feb 1948

"In Memory of Academician A.A.Rikhter," M.Kh. Chaylakhyan, 7½ pp

"Iz Ak Nauk SSSR, Ser Biolog" No 1

Rikhter died on 2 Apr 1947. His biography is presented. During the latter part of his life Rikhter was Director of the Photosynthesis Laboratory, and was well-known for work in biochemistry, and physiology.

FDB

67T1

USSR/Academy of Sciences  
Geology

Mar/Apr 1948

"Conditions for the Prize Imeni P.I. Stepanov," Academician Vavilov, Pres, Acad Sci USSR, 1 p

"Iz Ak Nauk SSSR, Ser Geolog" No 2

Presented every three years for best work in the geology of coal deposits. Prize amounts to 20,000 rubles. Decisions to be made on 16 Jun 1949. Last date for submission of competitive articles is 1 Apr 1949. Establishes panel of judges.

FDB

67T2

USSR/Academy of Sciences  
Geology

Mar/Apr 1948

"Conditions for the Prize Imeni S.S.Smirnov," Academician Vavilov, Pres, Acad Sci USSR, 1 p

"Iz Ak Nauk SSSR, Ser Geolog" No 2

Presented every three years for best work in geology of ore deposits. Prize amounts to 10,000 rubles. Decision to be made on 16 Sep 1949. Last date for submission of articles is 15 Aug 1949.

FDB

67T3

USSR/Academy of Sciences  
Geology

Mar/Apr 1948

"List of the Imeni Prizes of the Department of Geological and Geographical Sciences of the Academy of Sciences of the USSR for 1948" 1 p

"Iz Ak Nauk SSSR, Ser Geolog" No 2

Gold Medal imeni Karpinskiy for exceptional work in geology, Gold Medal imeni Dokuchayev for outstanding work in soil studies, Prize imeni Karpinskiy for exceptional work in the field of geology, paleontology, and petrography, Prize imeni Dokuchayev for exceptional work in soil

FDB

67T4

USSR/Chemistry - Sugar Manufacture  
Chemistry - Wood, Saccharification

May 1948

"Sugar and Alcohol From Wood," A.F. Buyanov, Engr, 5 pp

"Nauka i Zhizn" No 5

Describes general process of making sugar and alcohol from wood; details of plant which converts green leaves, the formation of "Sarkar" (sucrose) in its natural form, and parallel artificial method for making sugar from wood pulp. Discusses methods used for making alcohol from wood chips and sawdust. Includes cross-sectional view of the ideal factory

FDB

67T5

USSR/Academy of Sciences  
(Contd)

Mar/Apr 1948

studies, Prize imeni Vernadskiy for exceptional work in geochemistry, biogeochemistry, mineralogy and crystallography, Prize imeni Arkhangel'skiy for best work in geology of European Russia, Prize imeni Obruchev for best work in geology of Siberia, and Prize imeni Savarenskiy for exceptional work in hydrogeology and engineering geology.

FDB

67T4

USSR/Chemistry - Sugar Manufacture  
(Contd)

May 1948

for hydrolytic products.

USSR/Chemistry - Mercury, Properties  
Chemistry - Mercury

May 1948

"Quick Silver," V.P.Zamkovoy, 2 pp

"Nauka i Zhizn" No 5

Describes chemical and physical properties and characteristics. Briefs some of the uses for quick silver.

FDB

67T5

FDB

67T6

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USSR/Chemistry - Synthesis Chemistry - Chemical Industry	May 1948	USSR/Physics Bunsen Burners Combustion	Apr 1948
"Trends in Modern Chemistry," Academician S.I. Vol'fkovich, 12 pp		"Research on the Structure of the Bunsen Burner Flame," K.S. Zarembo, Ya.B. Zel'dovich, Inst of Phys Chem, Acad Sci USSR, Moscow, 11 pp	
"Nauka i Zhizn'" No 5		"Zhur Fiz Khim" Vol XXII, No 4	
Apparently one of series of lectures on the trends in contemporary chemistry. Lecture discusses development of raw ore bases for chemical products, synthesis of new chemical products, development of new methods and improvements to contemporary production methods, development of scientific research methods, new methods for analysis and control of		Works out method to calculate the penetration of heat into the zone of unburned gas during the combustion of gas with Bunsen burner. Also conceives method to calculate the angle of refraction of light rays, passing through the flame of Bunsen	
FDB	67T7	FDB	67T8
USSR/Chemistry - Synthesis (Contd)	May 1948	USSR/Physics (Contd)	Apr 1948
production, studies of mechanisms and kinetics of chemical reactions, and the introduction of chemistry into other fields of science, technology, and national economy. Pictures of synthetic rubber plant, method for hydrometallurgical extraction of nonferrous metals from ore, cracking plant for high octane gas, and equipment for producing liquid natural gas.		burner. Includes photographs, diagrams, tables, and microphotographs. Submitted 1947.	
FDB	67T7	FDB	67T8
USSR/Chemistry - Acetic Acid, Chloro Chemistry - Polymorphism	Apr 1948	USSR/Chemistry - Selenium Chemistry - Coatings	Apr 1948
"Molecular Polymorphism: The Molecular Polymorphism of Monochloroacetic Acid," S.S. Urazovskiy, I.A. Shcherbakov, Chem Engr Inst imeni S.M. Kirov, Khar'kov, 6 pp		"The Metallization of Liquid Selenium," S.S. Urazovskiy, B.D. Luft, Chem Engr Inst imeni S.M. Kirov, Khar'kov, 7½ pp	
"Zhur Fiz Khim" Vol XXII, No 4		"Zhur Fiz Khim" Vol XXII, No 4	
Study of two polymorphic modifications of monochloroacetic acid in solutions. Detect substantially different effect in number of properties: adsorption, surface tension, catalytic activity, etc. Explain observed phenomena in the light of new theoretical		Study kinetics of the metallization of vitriform selenium in various nitrogen-containing organic bases. Establish relation of the capacity for metallization to the thermal condition of the original liquid stage of selenium in temperature	
FDB	67T9	FDB	67T10
USSR/Chemistry - Acetic Acid, Chloro (Contd)	Apr 1948	USSR/Chemistry - Selenium (Contd)	Apr 1948
generalizations linking the phenomena of polymorphism and the variability of molecular structure--the theory of molecular polymorphism. Submitted 1947.		range from the melting point to 500° C. Express theories on the cause of observed anomalies based on the possibility for the formation of selenide. Submitted 1947.	
FDB	67T9	FDB	67T10

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FDB Periodical Abstracts Scientific No 67

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USSR/Chemistry - Triphenylmethyl  
Chemistry - Water, Heavy

Apr 1948

"The Stability of Hydrogen Atoms in Free Triphenylmethyl," A.S. Fomenko, Ye. A. Sadovnikova, Sec of Chem of Isotopes, Inst of Phys Chem imeni L.V. Pissarzhevskiy, Acad Sci, Ukr SSR, 2½ pp

"Zhur Fiz Khim" Vol XXII, No 4

Study of the capacity of the hydrogen atoms of the free radical, triphenylmethyl, to interchange with atoms of deuterium in heavy water or heavy acetone. No such exchange was observed during heating up to 100° over a period of up to 150 hours. Submitted 1947.

FDB

67T11

USSR/Chemistry - Tungsten, Thoriated  
Chemistry - Dissociation of Hydrogen

Apr 1948

"The Dissociation of Hydrogen on Pure and Thoriated Tungsten," T. Ivanovskaya, I. Mochan, Physicotech Inst, Acad Sci USSR, Leningrad, 5 pp

"Zhur Fiz Khim" Vol XXII, No 4

Observe dissociation of molecular hydrogen on an incandescent surface of pure and thoriated tungsten at various temperatures and with various coatings of thorium. Draw conclusion that dissociation over thoriated tungsten occurs with greater energy of activation. Show that the speed of dissociation

FDB

67T12

USSR/Chemistry - Acetone, Decomposition of  
Chemistry - Ketene

Apr 1948

"The Kinetics of the Homogeneous Decomposition of Acetone to Ketene in the Presence of Steam," V.B. Fal'kovskiy, M.Ya. Kagan, Inst of Fine Chem Tech imeni M.V. Lomonosov, Moscow, 10 pp

"Zhur Fiz Khim" Vol XXII, No 4

Study of kinetics of the homogeneous decomposition of acetone in circulating system at atmospheric pressure. Establishes that the products of decomposition retard the reaction. Shown that water vapor, at temperatures of 610-665° C at atmospheric pressure,

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67T13

USSR/Chemistry - Tungsten, Thoriated  
(Contd)

Apr 1948

tion drops in accordance with increase in proportion of the surface taken up by thorium. Submitted 1947.

FDB

67T12

USSR/Chemistry - Acetone, Decomposition of  
(Contd)

Apr 1948

is inert diluent that shortens the secondary processes, and increases the yield of ketene. Submitted 1947.

FDB

67T13

USSR/Chemistry - Hydrogen, Oxidation of  
Chemistry - Catalysts

Apr 1948

"Speeding Up the Slow Reaction of the Oxidation of Hydrogen by Steam," V.V. Voyevodskiy, Lab of Elem Processes, Inst of Phys Chem, Acad Sci USSR, Moscow, 3 pp

"Zhur Fiz Khim" Vol XXII, No 4

Maintains, and substantiates by mathematical computation, theories on the homogeneous mechanism of acceleration of the slow reaction of the oxidation of hydrogen. Submitted Jul 1947.

FDB

67T14

USSR/Chemistry - Phenols, Nitro Derivatives  
Chemistry - Ammonium

Apr 1948

"Absorption Spectra and Electrical Conductivity of Solutions of Nitro- and Polynitrophenols in Liquid Ammonium," N.M. Dykhno, A.I. Shatenshteyn, Phys Chem Inst imeni L.Ya. Karpov, Moscow, 12½ pp

"Zhur Fiz Khim" Vol XXII, No 4

Study of absorption spectra of solutions of o-, p-, and m-nitrophenols, 2,4-, 2,6-, 2,5-, 3,5-dinitrophenol and picric acid in liquid ammonium and in diluted alkali waters (0,001N) at room temperatures. Also studies the electrical conductivity of solutions

FDB

67T15

USSR/Chemistry - Phenols, Nitro  
Derivatives  
Chemistry - Hydrazine

Apr 1948

"Absorption Spectra of Solutions of Nitro- and Polynitrophenols in Anhydrous Hydrazine," Ya.M. Varshavskiy, A.I. Shatenshteyn, Phys Chem Inst imeni L.Ya. Karpov, Moscow, 7½ pp

"Zhur Fiz Khim" Vol XXII, No 4

Measure absorption spectra of solutions of nitro- and polynitrophenols in anhydrous hydrazine. Due to the unstable nature of hydrazine in the presence of air, develop method whereby preparation of the

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USSR/Chemistry - Phenols, Nitro Derivatives Apr 1948  
(Contd)

of all above-mentioned substances in liquid ammonium at temperatures of 25 and -78°. Submitted 1 Jul 1947.

FDB

67T15

USSR/Chemistry - Phenols, Nitro  
(Contd)

Apr 1948

solution and photography of the spectrum is done in media lacking air. Submitted 1 Jul 1947.

FDB

67T16

USSR/Chemistry - Catalysts, Metal Oxide Apr 1948  
Chemistry - Carbon Monoxide, Hydrogenation of

"Kinetics and Mechanism of Catalytic Hydrogenation of Carbon Monoxide: I, Methodic Preparation of Metallic Catalysts From Their Oxides and Their Operation Without Contact With Air," G. Braude, N. Shurmovskaya, B. Bruns, State Inst of Nitrogen Industries, Moscow, 3 pp

"Zhur Fiz Khim" Vol XXII, No 4

Describes method that permits every type of use of the catalyst without it coming in contact with air. Method was used by authors to study the kinetics and

67T17

USSR/Chemistry - Solubility  
Chemistry - Metals

Apr 1948

"Solubility of Metals and Generalized Moment," V.K. Semchenko, P.P. Pugachevich, Moscow State U imeni M.V. Lomonosov; Sci Res Inst of Phys, Moscow, 4 pp

"Zhur Fiz Khim" Vol XXII, No 4

Graphic method to calculate the solubility of Na, Au, Ag, As, Ca, Bi, Cu, and Si in various metals. Makes use of state diagrams. Shows how the generalized moment can be determined from the state of the metal, and the compressibility curve or the curve showing

67T18

USSR/Chemistry - Catalysts, Metal Oxide Apr 1948  
(Contd)

mechanisms of catalytic reactions on metallic catalysts. Submitted 25 Jul 1947.

FDB

67T17

USSR/Chemistry - Solubility (Contd)

Apr 1948

thermal expansion. Submitted 4 Jul 1947.

FDB

67T18

USSR/Chemistry - Chloramine Apr 1948  
Chemistry - Oxidation, Reduction Properties of Chloramine

"Oxidation and Reduction Potential of Chloramine and the Mechanism of Oxidation With It," B.N. Afanas'yev, Lab of Phys and Colloidal Chem, Sverdlovsk Agr Inst, 3 pp

"Zhur Fiz Khim" Vol XXII, No 4

Determines normal oxidizing-reduction potential of chloramine in neutral and acid media by potentiometric titration method. Gives results of observations for both types of media. Submitted 25 Jun 1947.

FDB

67T19

USSR/Chemistry - Reduction Apr 1948  
Chemistry - Quinoline Derivatives

"Reduction of Pyridine, Quinoline and Derivatives of Quinoline in Mercury-Drop Electrodes," M.K. Shchennikova, I.A. Korshunov, Gor'kiy State U, 9 pp

"Zhur Fiz Khim" Vol XXII, No 4

Determine that character of the reduction and depth of hydrogenation is greatly dependent on the concentrations of hydrogen ions in solution. Reduction of quinoline and o-oxyquinoline on mercury-drop electrode shows decrease of overvoltage. Submitted 27 Jun 1947.

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<p>USSR/Chemistry - Electrodes Apr 1948 Chemistry - Overvoltage, Hydrogen</p> <p>"Overvoltage of Hydrogen in Powdered Iron Electrodes," S.A. Rozentsveyg, B.N. Kabanov, Inst of Phys Chem, Acad Sci USSR, Moscow, 7 pp</p> <p>"Zhur Fiz Khim" Vol XXII, No 4</p> <p>Slope of the overvoltage curve on oxidized surface of iron increases and varies in accordance with the degree of oxidation of the surface within the limits of 0.12 - 0.22 v. Overvoltage of hydrogen on the oxidized surface of iron was much higher within the studied amperage range (higher than <math>10^{-8}</math> A/cm<sup>2</sup>). FDB 67T21</p>	<p>USSR/Chemistry - Amalgams, Tin Apr 1948 Chemistry - Electrocapillarity</p> <p>"Research on the Electric Capillary Phenomenon in Amalgams of Tin and Bismuth," S.V. Karpachev, V.P. Kochergin, Ye.F. Iordan, Electrochem Lab, Ural Affiliate, Acad Sci USSR, Sverdlovsk, 6 pp</p> <p>"Zhur Fiz Khim" Vol XXII, No 4</p> <p>Electrocapillary phenomenon in amalgams of tin evidence minimum surface tension, while amalgams of bismuth evidence maximum surface tension. Conducted studies to determine the elasticity of mercury vapors on subject amalgams at temperatures of FDB 67T22</p>
<p>USSR/Chemistry - Electrodes (Contd) Apr 1948</p> <p>At amperage of <math>10^{-5}</math> A/cm<sup>2</sup> this difference was approximately 0.2 v. Submitted 7 Jul 1947.</p> <p>FDB 67T21</p>	<p>USSR/Chemistry - Amalgams, Tin (Contd) Apr 1948</p> <p>420°. Submitted 23 Jul 1947.</p> <p>FDB 67T22</p>
<p>USSR/Chemistry - Tin Apr 1948 Chemistry - Vapor Pressure</p> <p>"Measurement of Small Vapor Pressures at High Temperatures: II, Vapor Pressure of Tin," A. Granovskaya, A. Lyubimov, Chair of Gen Chem, Chair of Phys, Moscow Inst of Steel, 2 pp</p> <p>"Zhur Fiz Khim" Vol XXII, No 4</p> <p>Previous work was on studies conducted on the pressure of tin vapor at low temperatures. Use same method here to measure tin vapor pressure in the range of 730 - 950° C. Tabulate results obtained. Submitted 22 Jul 1947. FDB 67T23</p>	<p>USSR/Chemistry - Esters, Sulfur Compounds May 1948 of Chemistry - Alkyl Group</p> <p>"Research on the Reaction of Phosphorous Thio Esters With Haloid Alkyls and Acyls," A.F. Divinskiy, M.I. Kabachnik, V.V. Sidorenko, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Tabulates results of experiments. Data obtained established that it is entirely possible to carry out the reaction of thio esters with acids of trivalent phosphors with haloid alkyls and acyls. This reaction can be traced by means of Arbuzov's FDB 67T24</p>
<p>USSR/Chemistry - Carotene, Determination May 1948 of Chemistry - Analysis, Qualitative</p> <p>"A New Method of Determining Carotin," D.I. Sapozhnikov, Bot Inst imeni V.L. Komarov, Acad Sci USSR, 2 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>New method has several advantages: It is rapid when compared to the old ones, requiring about 30 minutes. Very little material is necessary for making the analysis. Limited number of reactions and dishes necessary for making the analysis. Submitted by Academician N.A. Maksimov 15 Mar 1948. FDB 67T25</p>	<p>USSR/Chemistry - Esters, Sulfur Compounds May 1948 of (Contd)</p> <p>theory of regrouping, and by the method of observing the atom of bivalent sulfur. Submitted by Academician A.N. Nesmeyanov 18 Mar 1948.</p> <p>FDB 67T24</p>

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<p>USSR/Chemistry - Spectra, Absorption Chemistry - Albumins</p> <p>May 1948</p> <p>"Variations in the Spectral Properties of the Structural Albumins of the Muscles in the Presence of Adenosin-Triphosphoric Acid," Kh.M. Ravikovich, O.N. Setkina, K.D. Leont'yeva, Inst of Biol and Med Chem, Acad Med Sci USSR, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Describe results of studies conducted on the absorption spectra of albumin and adenosin-triphosphoric acid (ATP) in the ultraviolet band of the spectrum to determine the physical and chemical properties of</p> <p>FDB 67T26</p>	<p>USSR/Chemistry - 1,3-Butadiene Chemistry - Nitroso Compounds</p> <p>May 1948</p> <p>"The Reactions of Diene Hydrocarbons With Nitroso Compounds: The Addition of 1,3-Butadiene to Nitrosobenzene," Yu.A. Arbuzov, Inst of Org Chem, Acad Sci USSR, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Bases on theoretical data two systems whereby 1,3-butadiene can be added to nitrosobenzene. Describes various experiments conducted: 1) addition of 1,3-butadiene to nitrosobenzene 2-phenyl-3,6-dehydro-orthocaine; 2) reduction of 2-phenyl-3,6-dehydro-</p> <p>FDB 67T27</p>
<p>USSR/Chemistry - Spectra, Absorption (Contd)</p> <p>May 1948</p> <p>myosin and actomyosin, and their variations in the presence of ATP. Submitted by Academician Ya.O. Parnas 25 Mar 1948.</p> <p>FDB 67T26</p>	<p>USSR/Chemistry - 1,3-Butadiene (Contd)</p> <p>May 1948</p> <p>orthocaine by 4-phenylaminobutene-2-ol-1; 3) acetylation of 4-phenylaminobutene-2-ol-1; 4) oxidization of diacetyl produced IV in N-acetyl-N-phenylglycine. Submitted by Academician A.N. Nesmeyanov 27 Mar 1948.</p> <p>FDB 67T27</p>
<p>USSR/Chemistry - Silumin Chemistry - Aluminum</p> <p>May 1948</p> <p>"The Mechanisms of the Formation of the Texture of Modified Silumin," Ye.A. Boom, Inst of Gen and Inorg Chem imeni N.S. Kurnakov, Acad Sci USSR, 1 1/2 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Boom describes mechanisms of the formation of the thin texture, which he had partially explained in previous article in "Tsvet Met" No 1, 1944. This thin texture results from the thick crystalline structure when silumin is added to aluminum. Submitted by Academician I.I. Chernyshev 19 Mar 1948.</p> <p>FDB 67T28</p>	<p>USSR/Chemistry - Periodic Acids Chemistry - Dissociation</p> <p>May 1948</p> <p>"Dissociation of Periodic Acid at Various Temperatures," M.F. Ivanova, M.B. Neyman, Gor'kiy State U, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Describe experiments conducted to study subject reaction. Submitted by Academician A.N. Frumkin 20 Mar 1948.</p> <p>FDB 67T29</p>
<p>SWEDEN/Communication Telephone Terminals Telephones - Automatic</p> <p>1948</p> <p>"Maintenance of (Telephone) Stations With Five Hundred Line Selectors" 5 pp</p> <p>"Ericsson Review" No 1</p> <p>Discusses main problems in the maintenance of automatic telephone centers. Mentioned tools used in this work, working conditions, and duties of personnel.</p> <p>BS 67T30</p>	<p>USSR/Electricity Hydroelectric Plants Power Plants, Electric</p> <p>May 1948</p> <p>"News in Sciences and Technology From Soviet Technical Journals" 3 pp</p> <p>"Nauka i Zhizn" No 5</p> <p>UzbekEnergo producing 1475 kv is most powerful power network of the eastern regions of the USSR. It has 11 hydroelectric stations. In 1947 car loadings were four times that of railroad-car loadings in 1913. Thermal electric stations have also increased their capacity and output: 1947 output was 6.5</p> <p>FDB 67T31</p>

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<p>SWEDEN/Electronics Regulators, Electronic</p> <p>Mar/Apr 1948</p> <p>"Frequency Analysis Treatment of the Regulation Problem, and Certain Applications of Physics to the Method" 5 pp</p> <p>"Asea's Tidning" No 3/4</p> <p>Attempts to clarify Nyquist's stabilization criterion, in addition to the new method in connection with the classic analytical treatment of regulation problem. Gives example of practicable application of the method.</p> <p>BS 67T32</p>	<p>USSR/Electricity (Contd)</p> <p>May 1948</p> <p>times 1932. By 1950 it is hoped that 7,500 km of rail line will be electrified. Krasnyy Kotel'-shohik Works produced the first Russian-made high-pressure boilers (100 atm with 500° temp) in 1947. In 1947 Leningrad Metal Works produced 102,000-hp hydroturbine for Dnepr Hydroelectric Station which operates at an efficiency of 93%.</p> <p>FDB 67T31</p>
<p>USSR/Electronics Regulators, Electronic Voltage Regulators</p> <p>May 1948</p> <p>"Criterion for the Properties of Regulation," V.V. Solodovnikov, 3½ pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>In previous article in "Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 12, 1945, author discussed properties of linear regulatory systems on the basis of their material frequency characteristics. Here he attempts to present general solution to the problem set up in</p> <p>FDB 67T33</p>	<p>USSR/Geology Clay</p> <p>May 1948</p> <p>"Some Features of the Lower Pliocene Montmorillonite Clay of Zakam'," N.V. Kirsanov, Geol Inst, Kazan Affiliate, Acad Sci USSR, 3 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Twenty-two regions in Tatar ASSR produce the so-called Florida clay. Briefs characteristics of this clay. Tests showed that more than 50% by mass was montmorillonite clay. Discusses chemical and physical properties of the latter. States</p> <p>FDB 67T34</p>
<p>USSR/Electronics (Contd)</p> <p>May 1948</p> <p>first article. Submitted by Academician V.S. Kulebakin 22 Mar 1948.</p> <p>FDB 67T33</p>	<p>USSR/Geology (Contd)</p> <p>May 1948</p> <p>that this type of clay is very useful in construction and that it has great importance to the national economy. Submitted by Academician D.S. Belyankin 30 Mar 1948.</p> <p>FDB 67T34</p>
<p>USSR/Geological Prospecting Petroleum Petrology</p> <p>May 1948</p> <p>"The Problem of the Genesis of Sulfurous Oils," I.S. Mustafin, Saratov State U imeni N.G. Chernyshevskiy, 2½ pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Heaviest crude oil concentrations are found in the Cenozoic, and Paleozoic layers. Author states that there is proportional amount of coal and crude oil in the world. Presents facts and figures that support this contention. Tied in with this, he discusses</p> <p>FDB 67T35</p>	<p>USSR/Geology Caverns</p> <p>May 1948</p> <p>"A Present-Day Cavern in the Cheboksary and Mari Region of the Volga (on the Left Bank of the Volga)," B.V. Selivanovskiy, Kazan State U imeni V.I. Ul'yanov-Lenin, 3½ pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Data obtained by author on the caverns on the left bank of the Volga between the Cheboksary and Mari regions. Phenomenon of caverns (covered caverns) are very widely distributed in this region. Area includes some 20,000 square km. Submitted by</p> <p>FDB 67T36</p>

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USSR/Geological Prospecting (Contd) May 1948  some of the problems inherent to the question of the genesis of sulfurous crude oils. Submitted by Academician S.I. Mironov 25 Mar 1948.  FDB 67T35	USSR/Geology (Contd) May 1948  Academician S.I. Mironov 24 Feb 1948.  FDB 67T36
USSR/Geological Prospecting May 1948 Coal Stratification  "Mesocarboniferous Deposits in the Southern Part of the Western Slope of the Central Urals," G.A. Smirnov, 2½ pp  "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6  Written to supply needed information on the central rock coal deposits of the Urals. Data used here was first obtained by G.N. Teodorovich. Draws conclusions about the nature of the deposits of this central coal basin. Indicates that there is relation between the  FDB 67T37	USSR/Geological Prospecting May 1948 Petroleum Clay  "On Clay 'Katuna' in Productive Strata," A.D. Sultanov, Inst of Geol imeni I.M. Gubkina, Acad Sci, Azerbaydzhan SSR, 2 pp  "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6  Data obtained during studies conducted on the so-called 'Katuna' clays found in some parts of the productive crude oil strata of Apsheron. At one time these 'Katuna' clays were used as proof of the continental origin of the deposits of the  FDB 67T38
USSR/Geological Prospecting (Contd) May 1948  western Carboniferous layers and the basic terrigenous layers of the eastern slopes. Submitted by Academician D.V. Nalivkin 23 Mar 1948.  FDB 67T37	USSR/Geological Prospecting (Contd) May 1948  productive layers. Submitted by Academician S.I. Mironov 25 Mar 1948.  FDB 67T38
USSR/Geological Prospecting May 1948 Gas  "The Connection of the Gas Deposits of the Azov Area With Hollows of Old Relief," A.A. Khanin, Cen Sci Res Lab, GlavGazTopProm, Council of Ministers, USSR 2½ pp  "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6  Available facts verify the presence of the Molochniy and Tubalskiy Gulfs during the Lower Sarmatskiy and Cimmerian epochs. Presents data showing that the gas deposits of the western shores of the Azov Sea follow very closely the location of former hollows  FDB 67T39	USSR/Geology Mar/Apr 1948 Tectonics Hydrology  "Geomorphology and Newest Tectonics of Transbaykal," N.A. Florensov, 13½ pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Presents geomorphological divisions of the Transbaykal and experimental division of the subject area on the basis of newly discovered tectonic data. Passing away of ancient rivers can be explained by the new fold-forming movements in recent times. This leads to the formation of  FDB 67T40

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<p>USSR/Geological Prospecting (Contd) May 1948</p> <p>and depressions. Submitted by Academician S.I. Mironov 31 Mar 1948.</p> <p>FDB 67T39</p>	<p>USSR/Geology (Contd) Mar/Apr 1948</p> <p>epigenetic valleys, and the displacement of rivers from synclines of mountain ranges and other phenomena.</p> <p>FDB 67T40</p>
<p>USSR/Geology Stratification Tectonics Mar/Apr 1948</p> <p>"New Data on the Stratigraphy of the Upper Paleozoic of the Southeastern Part of Primorya," P.N. Kropotkin, S.A. Salun, 6 pp</p> <p>"Iz Ak Nauk SSSR, Ser Geolog" No 2</p> <p>Authors studied Upper Paleozoic cross sections of the mountainous regions of Sikhote-Alin'. Discuss the stratigraphic disposition of the Upper Paleozoic complex based on data obtained. New fauna discoveries permit more detailed division of the Upper Paleozoic</p> <p>FDB 67T41</p>	<p>USSR/Geology Stratification Tectonics Mar/Apr 1948</p> <p>"The Stratigraphy and Tectonics of the Paleozoic and Pre-Cambrian Deposits of the Northern T'ien-Shan Area," V.N. Kozerenko, 16 pp</p> <p>"Iz Ak Nauk SSSR, Ser Geolog" No 2</p> <p>Author collected and used field data for his description of the stratigraphy and tectonics of the Pre-Cambrian and Paleozoic layers in wide area in the central part of the northern zone of T'ien-Shan. Points out synchronous nature of deposits</p> <p>FDB 67T42</p>
<p>USSR/Geology (Contd) Mar/Apr 1948</p> <p>deposits into lower, middle, and upper layers.</p> <p>FDB 67T41</p>	<p>USSR/Geology (Contd) Mar/Apr 1948</p> <p>based on nature of geologic faces. Determines the divisions of new mineral rock complex.</p> <p>FDB 67T42</p>
<p>USSR/Geology Tectonics Mar/Apr 1948</p> <p>"Structural Disintegration of the Transbaykal," M.S. Nagibina, I.V. Luchitskiy, 7 pp</p> <p>"Iz Ak Nauk SSSR, Ser Geolog" No 2</p> <p>Bases system of structural disintegration of the Transbaykal on results of geologic surveys of the past ten years.</p> <p>FDB 67T43</p>	<p>USSR/Geology Stratification Tectonics Mar/Apr 1948</p> <p>"The Devonian Period in Central Timan," S.V. Tikhomirov, 10 pp</p> <p>"Iz Ak Nauk SSSR, Ser Geolog" No 2</p> <p>Data obtained from detailed studies of cross sections of the Devonian layers in central Timan. <b>Stratigraphically</b> compares these deposits with synchronous deposits in the Ukhtinsk region of southern Timan, and the main and central Devonian fields. Studies of the changes of faces in the Timan Devonian layers. Concludes that there are general similarities</p> <p>FDB 67T44</p>

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USSR/Geology Bauxite Coal  Mar/Apr 1948  "The Development of the Mesozoic Bauxites of the Urals, Kazakhstan, and the Yenisey Ridge," V.A. Vakhrameyev, 14 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Nature of the deposits and character of mesozoic bauxites of the lake-marsh deposits of central and southern Urals, Mugodzhur, northeastern Kazakhstan, and the Yenisey Ridge show that there is no connection between these deposits and the Jurassic coal-bearing layers. Discovery of leaf and fungus traces in FDB 67T45	USSR/Geology (Contd)  Mar/Apr 1948  and rhythms in the precipitation processes of the Upper Devonian layer in Timan and the main Devonian field.  FDB 67T44
USSR/Geology (Contd)  Mar/Apr 1948  bauxite layers lead to the theory that the bauxite formation process occurred during the Lower Melovian epoch.  FDB 67T45	USSR/Geology Bauxites Petrology  Mar/Apr 1948  "The Genesis of Ural Bauxites," A.K. Gladkovskiy, 10 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Author presents his basic theories on the formation of bauxites in the Urals. Concludes that the Devonian bauxite deposits of the Urals are of marine origin. This fact is based on fauna relics found in the Koz'yerechensk deposits. States that the Mesozoic bauxites are the result of secondary FDB 67T46
USSR/Geology Tectonics Stratification  Mar/Apr 1948  "New Data on the Geology of the Southwestern Part of the Alden Mountain Range," G.B. Mitich, 6 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Presents data on the stratigraphy, tectonics, and petrography of the Proterozoic deposits. Bases on above data relation between the Cambrian deposits (two Proterozoic complexes) and the Archeozoic deposits with their component complexes.  FDB 67T47	USSR/Geology (Contd)  Mar/Apr 1948  mechanical origin. They are formed by the disintegration or redepositing of primary deposits.  FDB 67T46
USSR/Geology Stratification Tectonics  Mar/Apr 1948  "Geological Structure of the Western Part of the Alden Platform," Ye.M. Laz'ko, 18 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Describes the stratigraphy, tectonics, and volcanic action of the western part of the Alden platform. Shows the close relation of the crystalline structures of this region to the various manifestations of the tectonic and magmatic cycles of the Proterozoic epoch.  FDB 67T48	USSR/Geology Tectonics Rock Formation  Mar/Apr 1948  "Dibrarian Rocks of the Southeast Caucasus," V.A. Grossgeym, 15 1/2 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Author describes the distribution and genetic classification of exotic formations, widely known as Dibrarian rocks. Bases his facts on data collected by thematic studies for period of five years (1936 1940). States that tectonic processes were of significance in the formation in only a few FDB 67T49

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USSR/Geology Rock Formation Stratification  "Magnetic Skarns in the City of Yakutsk," A.O. Rozentsvit, 2 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Describes highly metamorphosed rock discovered at depth of 453 meters under the Jurassic sand-slate layers. Reaches some conclusions on the force of gravity in the formation of these metamorphosed layers.  FDB 67T50	USSR/Geology (Contd) Mar/Apr 1948  cases. <b>Principal</b> reasons for the formation of these rocks were denudation and sedimentation.       FDB 67T49	
USSR/Geology Rock Formation  "Remarks on P.I. Lebedev's Observation on the Nature of the Tuff Lavas of Armenia," A. Zavaritskiy, 1½ pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Zavaritskiy takes various points Lebedev used to support his statement that the Armenian tuff lavas are not of igneous origin, and proves that Lebedev is in error.  FDB 67T51	USSR/Geology Bauxite Rock Formation  "On the Genesis of the Ural Paleozoic Bauxites," L.S. Berg, 14 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Author discusses the biochemical theory, the inconsistencies of the thalassogenic theory, various interruptions in the processes of depositing and genesis of bauxites, and the magmatic hypothesis, and lists his conclusions.  FDB 67T52	
USSR/Geology Petrology Terminology  "Some Observations in Connection With D.S. Korzhinskiy's Article, 'Methodical Trends in Physico-chemical Petrology in the USSR!'," D.S. Belyankin, 2 pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Subject article appeared in "Jubilee Edition of the Academy of Sciences USSR" Vol II. Belyankin, who was fortunate enough to see the rough copy of the article, is critical of the fact that Korzhinskiy did not take into account the historical perspectives of physico-  FDB 67T53	USSR/Geology Rock Formation Tectonics  "On 'Maggot' Limestones," N.N. Yakovlev, 2½ pp  "Iz Ak Nauk SSSR, Ser Geolog" No 2  Briefs characteristics of limestones that contain remains of such worm-like crustaceans as the Spirobis, or the first motile ringed worms, the Annelida. Author claims that such formations developed in shallow-water areas.  FDB 67T54	
USSR/Geology (Contd) Mar/Apr 1948  chemical petrography when he drew his map showing subject petrography distribution in the USSR. Greatest errors concern terminology and nomenclature.  FDB 67T53	USSR/Geophysics Deformation May 1948  "Deformation of the Earth's Surface Under the Influence of External Forces," V.F. Bonchkovskiy, Geophys Inst, Acad Sci USSR, 4 pp  "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6  Obtained values for deformation show that there is constant inclined movement of the earth's surface, which nevertheless does not upset its normal distribution. Interesting to note that the degree of incline depends on the nature of mineral rock located in the surface layers of the earth's crust. Submitted by Academician O.Yu. Shmidt 31 Mar 1948.  FDB 67T55	

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<p>USSR/Mathematics - Boundary Problems May 1948 Mathematics - Function Theory</p> <p>"The Theorem of D.F. Yegorov on Measuring Functions," P.B. Frumkin, Leningrad Inst of Aviation Equipment Constr, 3 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Tolstov stated that D.F. Yegorov's theorem for measuring functions cannot be expanded for the case of a continuous parameter. Frumkin shows that the function <math>f(t,s)</math> can be used so that Yegorov's theorem will hold true for all cases. Submitted by Academician V.I. Smirnov 22 Mar 1948.</p> <p>FDB 67T56</p>	<p>USSR/Medicine - Marine Organisms May 1948 Medicine - Plankton</p> <p>"The Zoogeography of Clay in the Northwestern Part of the Pacific Ocean," K.A. Brodskiy, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Data presented is the result of hydrographic surveys conducted in the summer of 1946 to study the characteristics of deep-water plankton from the northwestern parts of the Pacific Ocean. Submitted by Academician L.S. Berg 19 Mar 1948.</p> <p>FDB 67T57</p>
<p>USSR/Medicine - Plants, Physiology May 1948 Medicine - Variation</p> <p>"Formation Variations in Cotton Plants Under the Influence of 2,4-Dichlorophenolhydroxyacetic Acid," Yu. V. Rakitin, K.Ye. Ovcharev, Ye.K. Nizkovskaya, Inst of Plant Physiol imeni K.A. Timiryazev, Acad Sci USSR, 3 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Results of studies conducted to determine the formation variations in cotton plants that are the result of the administration of 2,4-dichlorophenolhydroxyacetic acid (DU). Tests were conducted in 1947 at the Farm imeni Kirov. Submitted by Academician N.A.</p> <p>FDB 67T58</p>	<p>USSR/Medicine - Parasites May 1948 Medicine - Parasitology</p> <p>"The Problem of the Cycle of Development of Macracanthorhynchus Catulinus Kostvlew, 1927," V.B. Dubinin, Zool Inst, Acad Sci USSR, 3 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Results of studies conducted on the development of the subject parasite, found in many animals caught during the 1943 expedition to the Dauriskiy steppe. Submitted by Academician Ye.N. Pavlov 19 Mar 1948.</p> <p>FDB 67T59</p>
<p>USSR/Medicine - Plants, Physiology (Contd) May 1948 Maksimov 22 Mar 1948.</p> <p>FDB 67T58</p>	<p>USSR/Medicine - Physiology May 1948 Medicine - Nervous System</p> <p>"On the Role of the Enzymatic 'Factor of Permeability' in the Phenomenon of Nervous Stimulation," Kh.S. Koshtoyants, Corr Mem, Acad Sci USSR, Sec of Evolutionary Physiol, Inst of Evolutionary Morph imeni A.N. Severtsov, Acad Sci USSR, 3 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Statement was made that the processes of nervous excitation basically were of an enzymochemical character. Author conducted studies to confirm or disprove this statement. Determined that enzymochemical reactions are the very root of nerve stimulation. Submitted 3 Apr 1948.</p> <p>FDB 67T60</p>
<p>USSR/Medicine - Fish May 1948 Medicine - Morphology</p> <p>"Comparative Research on Larval Development of Fish and Amphibians in Connection With the Development and Functions of the Hypophysis-thyroid Complex," A.I. Irikhimovich, Inst of Evolutionary Morph imeni A.N. Severtsov, Acad Sci USSR, 4 pp</p> <p>"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6</p> <p>Presents the development of the Tritonfaeniatus grub. Objective is comparison of the data herein with data from previous article. Notes that only in the amphibians, closer related to higher animals, was the effect of hormones observed. Submitted by Academician</p> <p>FDB 67T61</p>	<p>USSR/Medicine - Physiology (Contd) May 1948</p> <p>FDB 67T60</p>



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USSR/Medicine - Fish (Contd)

May 1948

I.I. Shmal'gauzen 23 Mar 1948.

FDB

67T61

USSR/Medicine - Rodents  
Medicine - Zoology

May 1948

"On the Discovery of Beaver in Mongolia," Anudarin, Dashdorzh, Mongolian State U imeni Marshall Choybal-san, Ulanbator, MNR, 3 1/4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Results of expedition of the Trans-Altay Gobi in summer of 1947 show that the beaver still exists in Mongolia. Submitted by Academician I.I. Shmal'gauzen 25 Mar 1948.

FDB

67T63

USSR/Medicine - Plants, Physiology  
Medicine - Reproduction

May 1948

"Speed of Swelling of Cotton Seeds and Temperature Regimes of Their Germination," Kh.Kh. Yenileyev, Inst of Bot and Zool, Acad Sci, Uzbek SSR, Tashkent, 3 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Studies conducted in 1946-1947 to determine that there exists between the various forms and types of cotton plants state of individualism with regard to the temperature regime necessary for the propagation of the seeds. Submitted by Academician N.A. Maksimov 9 Mar 1948.

FDB

67T65

USSR/Medicine - Flies  
Medicine - Heredity, Mechanism

May 1948

"Mutation and Lethal Concentration in Various Seasons in the Reproduction of a Population," Ye. D. Postnikova, 3 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Data obtained during studies conducted on the appearance of lethal mutation in the X-chromosomes for individual Drosophila melanogaster was collected during various seasons and from two different populations. Submitted by Academician I. I. Shmal'gauzen 23 Mar 1948.

FDB

67T67

USSR/Medicine - Zoology  
Medicine - Taxonomy

May 1948

"Craniological Discrimination Between Camelus Bactrianus Ferus Przewalski and Camelus Bactrianus Bactrianus L. (Domesticus)," Ya.I. Khaveson, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

States location from which test animals were obtained. Conducted measurements and studies. Observations point out basic difference between the two species. Submitted by Academician I.I. Shmal'gauzen 16 Mar 1948.

FDB

67T62

USSR/Medicine - Plants  
Medicine - Light, Effects

May 1948

"Effect of the Ratio of the Number of Hours of Strong and Weak Light on the Development of Rudbeckia," G.A. Samygin, Inst of Plant Physiol imeni K.A. Timiryazev, Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Experiments conducted during the summer of 1947 to determine the subject effect. Strong light effects the development of long-day plants through the process of photosynthesis. Submitted by Academician N.A. Maksimov 22 Mar 1948.

FDB

67T64

USSR/Medicine - Fish  
Medicine - Plankton

May 1948

"The Influence of the Sardine on the Distribution of the Plankton Biomass in the Sea of Japan," A. P. Kusmorskaya, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Observations on the development of plankton in the northwestern part of the Japan Sea made it possible to determine yearly decrease in the biomass, and to connect this decrease with the entrance of sardines into Soviet coastal waters. These studies have been carried on over period of years, and began in 1941. Submitted by Academician P. P. Shirshov 16 Mar 1948.

FDB

67T66

USSR/Medicine - Birds  
Medicine - Heredity, Mechanism

May 1948

"Basic Directions of the Adaptation of the Wing of Corvidae," A. K. Rustamov, Turkmen Affiliate, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Studies conducted to explain the changes in the wings of Corvidae which helped adapt Corvidae to their mode of living. Submitted by Academician Ye. N. Pavlov 19 Mar 1948.

FDB

67T68

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USSR/Medicine - Plants, Physiology Medicine - Reproduction May 1948 "Effect of Root Feeding of Castor Plants on the Features of the Field," L. L. Balashev, N. M. Sannikova, Sci Inst of Fertilizers and Insectofungicides imeni Ya. V. Samoylev, 2½ pp "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6 Briefly describes the bisexual nature of the sex cells, and the possible effect of the body on the sex cell, which contains in itself potency, and the male and female nuclei. Study was conducted in connection with the theory that heredity is as important as the phenotypic determination of sex, which occurs under the in- FDB 67T69	USSR/Medicine - Paleontology Medicine - Fossils May 1948 "On the Systematic Position of Graptolite," A. M. Obut, Paleontol Lab, Leningrad State U, 2½ pp "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6 Historical review of work done by various scientists in the field of studies on graptolite. Author presents some new data obtained during the course of his studies. Submitted by Academician L. S. Berg 24 Mar 1948. FDB 67T70	
USSR/Medicine - Plants, Physiology (Contd) May 1948 fluence of so-called external factors. Submitted by Academician E. V. Britske 27 Mar 1948. FDB 67T69	USSR/Medicine - Morphology Medicine - Biology May 1948 "Significance of the Mesodermus in the Differentiation of the Sucker in Anura," N. P. Bordzilovskaya, G. I. Shulyak, 3 pp "Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6 Experiments show that mesenchyma has very significant inhibiting effect on the development of the sucker. Studies conducted to show that if the sucker is in fact an outgrowth of the mesoderm, why it occurs only in the region of the mouth. Submitted by Academician I. I. Shmal'gauzen 16 Mar 1948. FDB 67T71	
USSR/Medicine - Veterinary Medicine, Military Feb 1948 Medicine - Books "Review of Professor I. D. Medvedev's Book, 'Veterinary Military Field Surgery in World War II'," Prof Yu. N. Davydov, 2 pp "Veterin" No 2 Useful and worth-while book for every veterinarian. Davydov hopes that this book will not be the last published by Medvedev. Second printing will have several minor corrections, and will contain additional information about military field veterinary practices during World War II. FDB 67T72	USSR/Medicine - Veterinary Medicine Medicine - Pneumonia Feb 1948 "Tests on the Therapy of Diseases in Pigs and Calves With Antireticular Cytotoxic Serum (ATsS)," V. K. Parakin, Sci Collaborator, Rostov NIVOS, 3½ pp "Veterin" No 2 Stimulating dosages of ATsS were effective therapeutic agents in bronchial pneumonia, paratyphus, and enzootic bronchial pneumonia. In stipulated dosages ATsS did not produce any ill aftereffects nor complications. Author states that therapy with the aid of ATsS should find widespread use in animal husbandry and veterinary practice. FDB 67T73	
USSR/Medicine - Horses, Diseases Medicine - Anemia, Infectious Feb 1948 "Clinical Manifestations of Equine Infectious Anemia," A. I. Protasov, A. D. Ledyayev, Cand Vet Sci, Chair of Epizootol, Leningrad Vet Inst, 3 pp "Veterin" No 2 Studies conducted to clarify the epizootic situation of infectious anemia in horses with the intent to discover more efficient methods for diagnosing and treating this disease. FDB 67T74	USSR/Medicine - Anemia, Infectious Medicine - Piroplasmosis Feb 1948 "The Combined Course of Piroplasmosis and Equine Infectious Anemia," N. A. Aleksandrov, 3 pp "Veterin" No 2 Notes the variable nature of the course of the disease in relation to the seasons. Spring appears to be the season during which this disease is most noticeable. Graph shows the rise and fall of cases. FDB 67T75	

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USSR/Medicine - Horses, Diseases  
Medicine - Typhus

Feb 1948

"The Treatment of Equine Exanthematous Typhus," A. P. Ryzhov, L. I. Mayorova, V. D. Nikitin, Veterinarians, Serum Dept, Inst imeni I. I. Mechnikov, 1½ pp

"Veterin" No 2

Exanthematous typhus is curable disease. Penicillin has very effective local action, e.g., on boils, etc. However, there are no positive indications of its general therapeutic effect. Early diagnosis and treatment is of prime importance.

FDB

67T76

USSR/Medicine - Anthrax  
Medicine - Veterinary Medicine

Feb 1948

"The Epizootological Characteristics of Locations of Malignant Anthrax, and Work on Their Differential Antiepidemic Measures," G. M. Mannov, Vinnits Oblast Vet Lab, 4 pp

"Veterin" No 2

Studies of the nature and occurrence of malignant anthrax show that this disease has seasonal and annual variations. Such characteristics make it difficult to make definite plans to control this disease. Discusses classification of the characteristics of places that showed outbreaks of subject disease, and methods best suited for control of disease at these various places.

FDB

67T78

USSR/Medicine - Tuberculosis, Vaccine  
Medicine - Tuberculosis, Pulmonary

Mar/Apr 1948

"Application of Antitubercular Cytotoxic Serum to Laryngeal Tuberculosis," G. B. Podgayetskiy, Ukr Sci Res Tuberculosis Inst, 1½ pp

"Problem Tuberk" No 2

Use of antitubercular cytotoxic serum (ATsS) in small doses acts as effective and nonirritating medicinal substance in laryngopulmonary tuberculosis. Best results obtained with patients suffering from infiltrative or fibronuclear forms of pulmonary tuberculosis, or from complex laryngeal tuberculosis. Best method

FDB

67T80

USSR/Medicine - Tuberculosis,  
Vaccine (Contd)

Mar/Apr 1948

for administration of ATsS is intracutaneous injection. Warns that the last injection can be administered only after the subsidence of all evidences of reaction (whether in the nidus, localized, or widespread). Dir, Ukrainian Sci Res Tuberculosis Inst: A. S. Mamolat.

FDB

67T80

USSR/Medicine - Veterinary Medicine  
Medicine - Disinfection and Disinfectants

Feb 1948

"New Measures in Veterinary Disinfection," Prof A. A. Polyakov, Dr Vet Sci, 4 pp

"Veterin" No 2

Soviet veterinarians have been given the task of improving methods for disinfection. Their attempts are in keeping with two guiding principles: 1) determine methods to eradicate pathogenic sources of infection, and of helminths, and 2) protect the person who has to come in contact with infected material. Briefly describes some of the new techniques developed in attempt to fulfill these guiding principles.

FDB

67T77

USSR/Medicine - Syphilis  
Medicine - Tuberculosis

Mar/Apr 1948

"Book Reviews" 4 pp

"Problem Tuberk" No 2

Prof Berlin-Chertov's book, "Pulmonary Syphilis," has questionable value for physicians. Information is plentiful but fragmentary, and therefore does not present comprehensive picture of the nature or treatment of pulmonary syphilis. M. A. Volkova's book, "Artificial Pneumothorax in the Treatment of Pulmonary Tuberculosis," is a well-written monograph, and can be considered valuable asset to medical library. Book is recommended for all physicians.

FDB

67T79

USSR/Medicine - Syphilis (Contd)

Mar/Apr 1948

practicing in chest-collapsing therapy. These books reviewed by Prof Ravich-Shcherbo. Prof B. L. Yakhniye states that "Works of the Institute of Tuberculosis, Academy of Medical Sciences USSR" is valuable and interesting book on tuberculosis in children.

FDB

67T79

USSR/Medicine - Tuberculosis, Pul-  
monary, Therapy  
Medicine - Transfusion

Mar/Apr 1948

"Experience With Pulmonary Tuberculosis Therapy by Erythrocyte Transfusion," Prof V. I. Rakhman, Dir, Hosp Therapeutic Clinic, Crimean Med Inst imeni I. V. Stalin, Crimean Oblast Tuberculosis Dispensary, Crimean Oblast Blood Transfusion Sta, 2 pp

"Problem Tuberk" No 2

Blood transfusions for treating pulmonary tuberculosis are being more widely used every day. Due to differences in the blood of the donor and the donee, however, there are times, especially during the

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67T81

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FDB Periodical Abstracts Scientific No 67

RESTRICTED

USSR/Medicine - Tuberculosis, Pulmonary Mar/Apr 1948  
Medicine - Blood Transfusion

"Experience With Blood Transfusions and Administration of Dry Serum in Pulmonary Tuberculosis," A. L. Brodskiy, Chief Surg, Ivanovo Oblast Tuberculosis Sanatorium No 1, Ivanovo Blood Transfusion Sta, 1½ pp

"Problem Tuberk" No 2

Series of experiments, using blood transfusions and dry serum for treating tuberculosis, was begun in 1946. Dry serum was used since it did not contain fibrinogen. Describes case histories and the course of treatment. Both substances helped considerably to decrease the effects of pulmonary tuberculosis where

FDB 67T82

USSR/Medicine - Tuberculosis, Mar/Apr 1948  
Pulmonary (Contd)

heavy blood flow was present. In cases of infectious anemia and distrophy, dry serum greatly decreased the effects of intoxication. Dir, Ivanovo Blood Transfusion Sta: P. M. Maksimov.

FDB 67T82

USSR/Medicine - Sputum, Disinfection Mar/Apr 1948  
Medicine - Tuberculosis

"Disinfection of Tubercular Sputum and Linen With Activated Chloramine Solution," O. P. Arkhipova, Cand Biol Sci, Cen Disinfection Inst, Inst of Tuberculosis, Acad Med Sci USSR, 6½ pp

"Problem Tuberk" No 2

Addition of ammonia salts to chloramine solutions (unit weight for unit weight) produced more effective bactericide for Koch's bacillus (BK): 0.05% solution will kill BK in two hours, 0.1% solution of activated chloramine will kill BK in 1 hour, while ordinary 1% solution requires more than 2 hours. This solution

FDB 67T84

USSR/Medicine - Sputum, Disinfection Mar/Apr 1948  
(Contd)

acts on sputum by homogenizing it rapidly, not only disinfecting but making it easier to wash utensils used by the patients. Dir, Cen Disinfection Inst: V. I. Vashkov. Dir, Inst of Tuberculosis, Acad Med Sci USSR: Z. A. Lebedev.

FDB 67T84

USSR/Medicine - Tuberculosis, Mar/Apr 1948  
Pulmonary, Therapy (Contd)

second transfusion, when severe anaphylactic symptoms appear in the donee. This condition is overcome by the substitution of erythrocyte transfusions for whole blood transfusions. Experiments were started in 1945 and very satisfactory results have been obtained. Describes method employed, and generalizes on results obtained. Chief, Crimean Oblast Tuberculosis Dispensary: A. D. Kazanskiy. Chief Surg, Crimean Oblast Blood Transfusion Sta: P. V. Mikhaylenko.

FDB 67T81

USSR/Medicine - X-Rays Mar/Apr 1948  
Medicine - Tuberculosis, Diagnosis

"The Significance of Lateral X-Rays of the Thorax for the Diagnosis of Several Diseases of the Lungs, Bronchial Tubes, and Pleura," A. Ya. Rabinova, Cand Med Sci, X-Ray Dept, Moscow Oblast Sci Res Tuberculosis Inst imeni Shvaytsar, 8½ pp

"Problem Tuberk" No 2

Author regrets that lateral chest X-rays are not widely used for tuberculosis diagnoses. Intends to familiarize practitioners with the advantages of lateral X-ray method. States that to use method efficiently, however, good knowledge of the structure

FDB 67T83

USSR/Medicine - X-Rays (Contd) Mar/Apr 1948

of the normal chest is essential. Briefs anatomical description of the side view of the chest. Deputy Chief, X-Ray Dept, Moscow Oblast Sci Res Tuberculosis Inst imeni Shvaytsar: Prof K. V. Pospel'tsov. Dir, Moscow Oblast Sci Res Tuberculosis Inst imeni Shvaytsar: Prof N. N. Grinchar.

FDB 67T83

USSR/Medicine - Intestines, Tuberculosis Mar/Apr 1948  
Medicine - Tuberculosis, Surgery in

"The Pathogenesis and Diagnosis of Intestinal Tuberculosis," D. A. Manucharyan, Moscow City Sci Res Inst of Tuberculosis, 6 pp

"Problem Tuberk" No 2

Tuberculosis of the intestines is of great significance in cases of serious tubercular conditions of the alimentary system. Mortality from alimentary tuberculosis is second only to mortality from pulmonary tuberculosis. The former, however, is determinable only by section. Intestinal tuberculosis can be considered the final complicated form of

FDB 67T85

RESTRICTED	FDB Periodical Abstracts Scientific No 67	RESTRICTED
USSR/Medicine - Tuberculosis, Pulmonary Mar/Apr 1948 Medicine - Tuberculosis, Surgery in	USSR/Medicine - Intestines, Mar/Apr 1948 Tuberculosis (Contd)	
"Alcoholization of the Diaphragmal Nerve During Primary Pneumonia in Juveniles and Adults," V. D. Yampolskaya, Surgical Clinic, Tuberculosis Inst, Acad Med Sci USSR, 7 pp	ptisis pulmonum. Difficult to detect and thus causes greater damage than pulmonary tuberculosis. Recommended methods for curing intestinal tuberculosis are vitamin therapy and phototherapy, and in more advanced cases, surgery. Dir, Moscow City Sci Res Inst of Tuberculosis: Prof V. L. Eynis.	
"Problem Tuberk" No 2		
Operations on the diaphragmal nerve in 30 cases suffering from primary tubercular pneumonia had therapeutic results in 26 cases. Determined that alcoholization of subject nerve is equivalent to surgical removal. Deputy Chief, Surgical Clinic, Tuberculosis Inst: Prof N. G. Stoyko. Dir, Tuberculosis Inst, Acad Med Sci USSR: Z. A. Lebedev.		
FDB 67T86	FDB 67T85	
USSR/Medicine - Morphology Jan/Feb 1948 Medicine - Taxonomy	USSR/Medicine - Algae Jan/Feb 1948 Medicine - Paleontology	
"Outline of the Comparative Morphology of Contemporary and Permian Nomoptera, Part II," Ye. E. Bekker-Migdisova, Paleontol Inst, Acad Sci USSR, 20 pp	"Certain Algae of the So-Called Kara Tau Breccia Region (Kara Tau, Kazakh SSR)," A. G. Vologdin, Paleontol Inst, Acad Sci USSR, Lab of Ancient Organisms, 9½ pp	
"Iz Ak Nauk SSSR, Ser Biolog" No 1	"Iz Ak Nauk SSSR, Ser Biolog" No 1	
Takes up the question of comparative morphology of the Permian and some contemporary nomoptera. Author particularly describes the characteristics of the Sternorrhyncha series and the Palaeorrhyncha Carp series. Briefly describes distribution of the nomoptera fauna in the Permian layers. Submitted by Academician I. I. Shmal'gauzen 3 Mar 1946.	Presents characteristics of Boroldaiaphycus, gen.nov.; Boroldaiaphycus borovikovi, sp.nov.; Boroldaiaphycus terektaensis, sp.nov.; and the Problematica. Data obtained will be of use in studies of the yet unevaluated paleontological material. Submitted 10 Oct 1946.	
FDB 67T87	FDB 67T88	
USSR/Medicine - Mice Jan/Feb 1948 Medicine - Fecundity	USSR/Medicine - Mice Jan/Feb 1948 Medicine - Sex, Ratio	
"Fertility and Dynamics of the Number of Gray Field Mice 'Microtus Arvalis Pall'," A. A. Maksimov, Inst of Evolutionary Morph imeni A. N. Severtsov, Acad Sci USSR, 9 pp	"The Ratio of the Sexes in the Population of the Gray Field Mouse 'Microtus Arvalis Pall'," A. A. Maksimov, Inst of Evolutionary Morph imeni A. N. Severtsov, Acad Sci USSR, 5½ pp	
"Iz Ak Nauk SSSR, Ser Biolog" No 1	"Iz Ak Nauk SSSR, Ser Biolog" No 1	
Obtained data on subject investigation during studies on the ratio of sexes. Determined that increases and decreases of mouse population vary from year to year. However, each period has its indicators of fertility, birth, and mortality. Submitted by Academician I. I. Shmal'gauzen 23 Dec 1946.	Material was collected over period of 4 years beginning in 1940: 1941 was considered the peak in mouse population numbers. After evaluation of all the data obtained the author concludes that due to many factors, the sex ratio is 1:1. Submitted by Academician I. I. Shmal'gauzen 23 Dec 1946.	
FDB 67T89	FDB 67T90	
USSR/Medicine - Nematodes Jan/Feb 1948 Medicine - Animals, Parasites	USSR/Medicine - Biology Jan/Feb 1948 Medicine - Growth, Experimental Studies	
"Special Protective Reactions of Carnivorous Organisms in the Interperitoneal Introduction of Nematodes," I. M. Vinnitskiy, Chair of Gen Biol and Parasitol, Sverdlovsk Med Inst, 13½ pp	"Comparison of the Rate of Animal Growth With the Aid of Commensurable Units," P. V. Gofman-Kadoshnikov, Chair of Gen Biol, First Moscow Med Inst, 11 pp	
"Iz Ak Nauk SSSR, Ser Biolog" No 1	"Iz Ak Nauk SSSR, Ser Biolog" No 1	
Studies the wholly independent picture of necrobiosis of ascaroidae in the peritoneal band of carnivorous animals. Describes experiments conducted on some 24 cats and 32 dogs. Submitted by Academician I. I. Shmal'gauzen 4 Jul 1946.	Various researchers state that significant speed of growth is used as indication of the nature of growth of an individual. Author shows that comparative study of the speed of growth of one animal can be used as means of determining the speed of growth of various types of animals. Submitted by Academician I. I. Shmal'gauzen 30 Aug 1946.	
FDB 67T91	FDB 67T92	

RESTRICTED	FDB Periodical Abstracts Scientific No 67	RESTRICTED	
USSR/Medicine - Uvea, Inflammation Medicine - Iridocyclitis	Mar/Apr 1948	USSR/Medicine - Materia Medica Medicine - Botany	May 1948
<p>"Reactive Traumatic Inflammation Under Experimental Conditions," A. A. Tikhomirova, Eye Clinic, Khar'kov Med Inst, Eye Dept, Ukr Gen Inst of Labor Hygiene and Occupational Diseases, 4½ pp</p> <p>"Vest Oftalmol" Vol XXVII, No 2</p> <p>Inflammatory reaction is checked at the forward region of the uveal tract. This is only of temporary nature, however, and does not change the nature of the reaction. Secondary trauma of the ciliary body or the crystalline lens is more prolonged and serious inflammatory reaction. Analysis of the experiments</p>		<p>"Botanical (Medicinal) Resources of the USSR," Prof D. M. Rossiyskiy, Honored Worker of Sci, 6 pp</p> <p>"Nauka i Zhizn'" No 5</p> <p>Describes briefly the botanical resources of the USSR that may be used for medicinal purposes. Among the plants mentioned: yarrow, alder, St John's wort, cowslip, and celandine.</p>	
FDB	67T93	FDB	67T94
USSR/Medicine - Uvea, Inflammation (Contd)	Mar/Apr 1948	USSR/Mines and Mining Mining Methods Excavating Machinery	Jun 1948
<p>conducted confirms the reactive nature of traumatic uveitis. Determines that many simple factors affect the course of the inflammation. Chief, Eye Clinic, Khar'kov Med Inst: Prof N. Ye. Braunshteyn.</p>		<p>"Test of Speed Sinking in the Kaul Mine," B. N. Zakhvatkin, Mining Engr, 2 pp</p> <p>"Gor Zhur" No 6</p> <p>Prior to 1947 shaft sinking went along at the rate of 20 meters per month. After 1947, however, when the system described herein was adopted, workers at the Kaul mine were able to sink up to 80 meters of shaft per month. Average speed is about 60 meters of shaft sunk per month.</p>	
FDB	67T93	LC	67T95
USSR/Mines and Mining Mining Methods Mining Equipment	Jun 1948	USSR/Mines and Mining Mining Methods Packings, Hydraulic	Jun 1948
<p>"Storied Cross Drifts Worked by Scraping in the Mine Imeni Karl Libknekht," V. D. Titov, Mining Engr, 1 p</p> <p>"Gor Zhur" No 6</p> <p>In this new system scrapers were located at the same level as the veins containing the ores being mined. In addition, scraper equipment was placed so that it could be used to greatest capacity. The number of drifts in each locality should be limited, however, so that they will have direct access to the mine outlet.</p>		<p>"Hydraulic Packing in the Karabashsk Shafts," K. I. Kataya, Mining Technician; V. A. Nechayev, Mining Engr, 4½ pp</p> <p>"Gor Zhur" No 6</p> <p>Describes such basic concepts as the technology of hydraulic packing work, the subject method as element of the over-all operation of a mine, and as very important means of controlling subterranean fires.</p>	
LC	67T96	LC	67T97
USSR/Mines and Mining Mining Methods Fire Prevention	Jun 1948	USSR/Mines and Mining Mining Methods Surveying	Jun 1948
<p>"Selection of a Method of Mining the Nikolayevsk Deposits," A. A. Popov, I. A. Perminov, Engineers, UNIPROMED', 2½ pp</p> <p>"Gor Zhur" No 6</p> <p>These deposits were worked by the open pit method. However, the cost of setting up equipment and preparing the site were high. Suggests tunneling method for digging these copper ores. Warns, however, that great care must be taken to select the most appropriate method for mining to prevent, as far as possible, the occurrence of fires.</p>		<p>"Effects of the Configuration of Deposits on the Mapping of Pits," Docent P. E. Zurkov, Cand Tech Sci, Magnitogorsk Mining-Metal Inst, 1½ pp</p> <p>"Gor Zhur" No 6</p> <p>Geometric form of deposits is very important in planning the operations of quarries. Hopes that this method of mapping quarry work so that it progresses in conformance with the geometry of the deposits will be used at open pit workings to increase the productivity of such enterprises.</p>	
LC	67T98	LC	67T99

<del>RESTRICTED</del> FDB Periodical Abstracts Scientific No 67		<del>RESTRICTED</del>	
USSR/Mines and Mining Mining Methods Blasting	Jun 1948	USSR/Mines and Mining Mining Methods Blasting	Jun 1948
<p>"Mass Blasting During the Clearing of Hollows in the Tel'bessk Mine," G. A. Gavalevich, Mining Engr, 3½ pp</p> <p>"Gor Zhur" No 6</p> <p>Describes preparation necessary for subject operation: Directions for placing the charges and methods for calculating the amount of charge necessary in various localities. Briefly describes method for selecting sequence of blasts, with note on the seismic effects of mass explosions.</p>		<p>"Mass Blasting in Faults in the Dashkesansk Mine," I. A. Alferov, V. D. Fesenko, Mining Engineers, 1½ pp</p> <p>"Gor Zhur" No 6</p> <p>Mass blasting was first used in 1946. Describes advantages gained by this method of working deposits at the Dashkesansk mines.</p>	
LC	67T100	LC	67T101
USSR/Mines and Mining Mining Methods	Jun 1948	USSR/Mines and Mining Mining Methods Sand	Jun 1948
<p>"Control of Crushed Ore Slides in the Blyavinsk Mine," P. G. Arkhipov, Engr, PEU SoyuzVzrivProm, 1½ pp</p> <p>"Gor Zhur" No 6</p> <p>Ore at subject mines is very loose due to tectonic and chemical processes. Presents several methods adopted to prevent sliding of rubble ores.</p>		<p>"Review of B. V. Nevskiy's Book, 'Dressing of Placers'," K. N. Verigo, 1½ pp</p> <p>"Gor Zhur" No 6</p> <p>Book of 335 pages is intended to describe the dressing of ores obtained by placer mining. Verigo states, however, that it falls short of its goal, and is useful only as handbook for those miners interested in dressing sand. One other noticeable shortcoming is that author has not used sufficient reference material, and thus presents only very elementary picture of dressing placer ores.</p>	
LC	67T102	LC	67T103
USSR/Mines and Mining Bibliography	Jun 1948	USSR/Mines and Mining Mining Methods Drilling Machinery	Jun 1948
<p>"New Books and Articles on Mining" 2 pp</p> <p>"Gor Zhur" No 6</p> <p>Lists recently published books on geology: the developing of mineral deposits, and various drilling and blasting operations.</p>		<p>"The Use of Deep Bores for the Underground Extraction of Ores," L. I. Baron, Cand Tech Sci, 3 pp</p> <p>"Gor Zhur" No 6</p> <p>Increase of production is necessary to comply with the plans set before the Soviet industries for the current Five-Year Plan. Mining productivity can be increased by adopting highly productive methods. One of these methods is deep bores whose operation is briefly described.</p>	
LC	67T104	LC	67T105
NORWAY/Nuclear Physics - Nuclear Theory Nuclear Physics - Water, Heavy	Apr 1948	DENMARK/Petroleum Industry Oil Production	1 Apr 1948
<p>"The Laboratory for Nuclear Physics in Bergen," Odd Dahl, Engr, Chm, Michelsen Inst, 5 pp</p> <p>"Elektro-Teknisk-Tidsskrift" No 11</p> <p>Speech by Odd Dahl at Annual Meeting of NEVF in Bergen 2 Jun 1947. Discusses problems encountered in atomic research. Very little said about the nuclear physics laboratory in Bergen, although the speech generally hinges on Norwegian atomic research. Includes diagrams and brief comments on the new laboratory. (Betatron of 47 mev is now under construction in Bergen.) Discusses heavy water, U 235 and U 238, in detail.</p>		<p>"World Production of Oil in 1947" 5 pp</p> <p>"Tidsskrift for Industri" No 7</p> <p>Figures for petroleum production (in 1,000 tons for 1938, 1946 and 1947, respectively) for 22 countries including: USA, 164,066; 234,214; 250,000; Venezuela, 26,890; 56,700; 63,500; USSR, 29,700; 22,800; 26,000; Iran, 10,359; 19,497; 19,800; Saudi-Arabia, 67; 8,200; 12,000; Mexico, 6,460; 7,040; 7,200; Irak, 4,364; 4,700; 4,700; Rumania, 6,610; 4,193; 3,800; Colombia, 3,127; 3,189; 3,500; Argentina, 2,443; 2,976; 3,000; Trinidad, 2,450; 2,890; 2,900;</p>	
BS	67T106	BS	67T107

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FDB Periodical Abstracts Scientific No 67

~~RESTRICTED~~USSR/Physics  
Photography, X-Ray

May 1948

"News in the All-Union Society for the Propagation of Polytechnical and Scientific Knowledge" 2 1/2 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

In May N. Ye. Uspenskiy gave public lecture, "Impulse X-Ray Photography, Its Status and Duties." In Apr Yu. I. Bokserman lectured on the industrial significance of natural gases. Series of lectures has been arranged for the workers of the Moscow Automobile Works Imeni Stalin. These will be political and technological. Briefs news accounts from the Central Polytechnical Library and the Polytechnical Museum.

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67T108

DENMARK/Petroleum Industry (Contd)

1 Apr 1948

Kuwait, --; 800; 2,700; British Borneo, 864; 300; 1,850; Peru, 2,096; 1,663; 1,700; Egypt, 223; 1,280; 1,300; Bahrain, 1,137; 1,100; 1,100; Canada, 864; 980; 850; Austria, 57; 846; 760; Dutch East Indies, 7,394; 300; 700; Hungary, 37; 640; 300; Germany, 552; 637; 550; Ecuador, 309; 307; 300; other countries, 1,514; 1,150; 1,100. Total: 271,583; 376,453; 409,610.

BS

67T107

List of Abbreviations  
used in FDB Periodical Abstracts

ID	Intelligence Division Library
AMC	Air Documents Division, Air Materiel Command
ST	Reference Division, State Department
BM	Bureau of Mines, Department of Interior
BS	National Bureau of Standards
SI	Smithsonian Institution
LC	Library of Congress
FDB	Foreign Documents Branch, CIA
COM	Department of Commerce
AF	A-2 Library, USAF

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